KOENIG
step forward

KOENIG SOLUTIONS · COURSE OUTLINE

Linux and Docker Fundamentals (Hands-On)

Learn to use the Linux command line and build, manage and network Docker containers and images.

3 Days	2	18
8 HOURS A DAY	MODULES	TOPICS

COURSE OVERVIEW

This course covers core Linux skills, including working with the Bash shell, the file system hierarchy, file management, text editing with Vim, users and groups, permissions, services, software installation with Yum, and remote access via SSH. It then moves into Docker administration, starting with an introduction to containers and Docker installation, followed by essential Docker commands, building and managing images, and storing and retrieving images from Docker Hub. It concludes with building containers from images, configuring container networking, persisting data with volumes, and working with Linux capabilities.

WHO THIS COURSE IS FOR

- **System Administrators**
- **DevOps Engineers**
- **Linux Administrators**
- **Software Developers**
- **IT Support Engineers**

LEARNING OBJECTIVES

- Execute commands using the Bash shell
- Describe the Linux file system hierarchy
- Manage files and permissions from the command line
- Edit text files with Vim
- Control system services and install packages with Yum
- Access remote systems with SSH
- Build and manage Docker images and containers
- Configure container networking and data persistence with volumes

TRAINING APPROACH

This hands-on class is approximately 80/20 lab to lecture ratio, combining engaging lecture, demos, and discussions with comprehensive machine-based practical labs.

COURSE SYLLABUS

2 Modules, 18 Topics

01

Linux Basics

TOPICS

- Executing Commands Using the Bash Shell
- Describing Linux File System Hierarchy Concepts
- Managing Files Using Command-line Tools
- Editing Text Files with Vim
- Describing User and Group Concepts
- Managing File System Permissions from the Command Line
- Controlling System Services
- Installing and Updating Software Packages with Yum
- Accessing the Remote Command Line with SSH

02

Docker Administration

TOPICS

- Introduction to Containers and Docker
- Installing Docker
- Docker Essential Commands
- Understanding and Building Docker Images
- Storing and Retrieving Docker Images from Docker Hub
- Building Containers from Images
- Overview Networking Docker Containers
- Data Persistence with Volumes
- Linux Capabilities

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

Classroom Training | Live Online Classes (ILO) | Fly-Me-A-Trainer (FMAT) | Flexi (Self-Paced) | 1-on-1 Training

Ready to Get Started?

Talk to a learning advisor about schedules, group training and customised delivery.

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